INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, Law Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

50X1-HUM C-O-N-F-I-D-E-N-T-I-A-L USSR REPORT COUNTRY 17 Feb 1961. Detailed Specifications of Soviet Crude DATE DISTR. **SUBJECT** Oils and Petroleum Products NO. PAGES REFERENCES 50X1-HUM DATE OF INFO. PLACE & DATE ACQ THIS IS UNEVALUATED INFORMATION

Tujmaza Crude Oil
Krasnodarskaja Crude Oil
Tatarskaja Crude Oil
Mukhanovskaja Crude Oil, devonian and coaly
Sokolovogorskaja Crude Oil
Aviation Gasolines
Motor Gasolines
Motor Gasolines
Laviation Turbine Fuel, T-l and TC-l
Burning Kerosene
Gas Oil, 43/47, 48/52 and 53/57
Fuel Oil, F-12, 12 and 30
Coal Tar Benzol
Aviation Oil, MC-20 and MK-22
Spindle Oil "2"
Turbine Oil

Document is unclassified 7

-end∞

C-O-N-F-I-D-E-N-T-I-A-L

STATE	ARMY	NAVY	AIR	FBI	AEC	

INFORMATION REPORT INFORMATION REPORT

NOFORM

NO DISSEM ARRIAD

NO DISSEM ARRIAD

NO DISSEM ARRIAD

INTED: Dissemination in the firm amployees of CIA, AEC and PBI; and, within lists and Delena, to in instance, components, other continuous producing NIS strong and higher echlors with their immediate supporting state. Region be disseminated to instance, attend projects or reserve personnel on a will fact the duty (excepting individuals who are normally full-time supported on a will fact the duty (excepting individuals who are normally full-time supported on a will fact the duty (excepting individuals who are normally full-time supported on a will fact the duty (excepting individuals who are normally full-time supported on a will fact the duty of the duty o

Sanitized Copy Approved for Release 2011/02/24 : CIA-RDP80T00246A012300180001-5



V/O SOJUZNIEFTEEXPORT

V/O "Sojuznefteexport" is the sole trade organization in the USSR for the sale of crude oil and petroleum products of high quality and wide assortment.

V/O "Soluznefteexport" also supplies vessels with bunkers fuel oil and marine diesel oil at the ports of Batumi, Odessa, Tuapsu, Novorossiisk, Leningrad, Murmansk, Archangel and Zhanov.

Please, address all inquiries to:
V/O "SOJUZNEFTEEXPORT"

Smolenskaja-Sennaja pl., 32/34

Moscow, USSR

Cable address: Nafta Moscow

Telephone: 4-4-40-49

Telex: 126

The Soviet Union possesses vast natural resources of various kinds of mineral fuels and is a great oil-producing State.

The discovery of a great number of oil-boaring fields along the Volga, the Urals and in other regions of the country has considerably changed the geographical distribution of the oil resources and has also paved the way for the foundation of new large oil centres in the Tatar, Bashkir and Kulbyshev regions, and each of them taken separately produces more oil than the world-known Beku region.

Control Figures for the Economic Development of the USSR for 1959-1965 provide for the further increase of crude oil output and volume of refining operations which will sharply raise the experting capacity of the Soviet Union.

TUJMAZA CRUDE OIL

...

One of the largest oil fields in the Volgo-Ural oil-bearing region - Tujmaza - is situated in the West of the Bashkir Autonomous Soviet Socialist Republic. Processing of Tujmaza crude oil yields a wide assortment of light and dark products and lubricating oils.

The quality of the Tujmaza crude oil is of the following characteristics:

Specific gravity at 20°C, max	0,858
Sulphur centent, %, max	1,5
Carbon content, %, mex.	4,5
Paraffin contents % sunt	5,5
Engler viscosity at 50°C, max	1,4
Content of water and sediments, %, max	0,5-1
Distillations	
distilled up to 200°C, % min	23
distilled up to 300°C, % min	40
distilled up to 350°C, % min	50

KRASNODARSKAJA CRUDE OIL

Krasnodarskja crude oil is characterized by a low sulphur and salt content and yields after refining such products as high-quality gasolines, burning keresene and high-grade gas fuel.

The quality of the Krasaedarskaja arude eli is ef the following characteristics:

Specific gravity at 20°C, max	0,899
Sulphur content, %, max	0,5
Carbon content, %, max	4,0
Paraffin content, %, mate	2,5
Engler viscosity at 50°C, max	1,6
Centent of water and sediments, %, max	2,0
Distillations	
distilled up to 200°C, %, min	15
distilled up to 300°C, %, min	. 35
distilled up to 350°C, %, min	40

TATARSKAJA CRUDE OIL

Exploration resulted in discovery in the Tater Autonomous Seviet Spelalist Republic of the most important oil fields which have considerably there and the proved comparaist oil reserves in the MSR.

The modern methods of rollings make it possible to product highquality potrolous goods.

The quality of the Tatarahaja erude all is of the following abgreeteristics:

******* 0,870
,,,,,,, 1,75
0,6
******* 5,5
emercan 1,5
· · · · · · · · · · · · · · · · · · ·

Sanitized Copy Approved for Release 2011/02/24 : CIA-RDP80T00246A012300180001-5

SOKOLOVOGORSKAJA CRUDE OIL

Sekelovogorskaja crude oli by its qualities rates among the best oils produced in the Volga-Urai oil-bearing region.

It is known for its 'low sulphur and gum content a large amount of light fractions and lubricating elis.

The quality of the Sokolovegerskeje crude oil is of the following characteristics:

Specific gravity at 20°C, max	0,840
Sulphur content, %, max	0,55
Carbon content, %, mex	2,3
Paraffin content, %, max	5,5
Singler viscosity et 50°C, max	1,3
Content of water and sediments, %, max	2
Distillations	
distilled up to 200°C, %, min	30
distilled up to 300°C, %, min	48
distilled up to 350°C, %, min	59

AVIATION GASOLINES

Aviation gasolines, manufactured by Soviet refineries are widely used in modern aircraft engines. They, pessess high anti-knock properties and easily evaporate, which guarantees easy starting and normal work of the engine under operating conditions.

The aviation gasolines are of the following characteristics:

Aviation gasoline grades

B 100/130	B 95/130		
98,4	95		
130	130		
40	40		
75	82		
105	105		
145	145		
180	180		
	98,4 130 40 75 105 145		

Fractional d	isti	llations			·	
distilled up	to	200°C,	%,	min.		24
distilled up	to	300°C,	%,	min.	•••••	40
distilled up	to	350°C,	%,	min.		50

MUKHANOVSKAJA CRUDE OIL

The intensive geological researches of the last years in the Kuibyshev region have resulted in the discovery of a number of large oil fields among which the Mukhanev field is most promising.

The Mukhanovskaja devenien and coal-bearing oils are characterised by the light fraction composition and by a relatively lew sulphur content.

When refined, it yields gas oil with high diesel index, industrial eils and other petroleum products of high quality.

The quality of the Mukhenovskeja crude oil is of the following characteristics:

	Mukhanevskaja devenian eil	Mukhanevskaja gogly ell
Specific gravity at 20°C, max	. 0,845	0,855
Sulphur content, %, mex	. 0,9	1,3
Carbon content, %, max	. 2,7	3,4
Pereffin content, %, max	6	7
Engler viscesity at 50°C, max	. 1,4	1,4
Centent of water and sediments, %,		
MCX	1,0	2,0
Philistens	e Significant	•
distilled up to 200°C, th, min	26	27
distilled up to 300°C, %, min	46	42
distilled up to 300°C, %, min		52

	Aviation gasoline grades			
Cheracteristics	B 100/130	B 95/130		
Vapour pressure, mm Hg, not more	240-360	220-260		
Sulphur content, %, max	0,05	0,05		
Existent gum, mg/100 ml gasoline,				
mex	2	2		
Not Calerific Value kcel/kg, min.	10300	10300		

MOTOR GASOLINES

Wide assortment of motor genolines, manufactured by our all refineries for comburator motor car and motor-cycle angines provides for normal stable work of those angines all the year round and under different appreting conditions.

The motor gaselines pesses excellent anti-knock qualities and studiety and may be used for modern motor cars operating with high compression ratios as well as for other carburetter engines.

The motor gesellnes are of the following characteristics:

Sanitized Copy Approved for Release 2011/02/24 : CIA-RDP80T00246A012300180001-5

MOTOR GASOLINES

					day's 1	•		
Charactertriles		74	83	Motor 87	Geseline 90	Grades 93	95	98
Density at 20°C, max		0,740	750	0,745	0,745	0,745	0,735	0,735
Octano number by motor method, m	in	74	78	83	84	85	86	90
Octano member by research method,		-	83	87	90	93	95	· 9 8
Distillations				•				
10% distilled at ^o C, not above		70	75	75	75	70	70	70
50 % distilled, at °C, not above .		105	120	120	120	120	110	110
90 % distilled, at °C, not above .		165	180	150	180	180	160	160
and point, °C, max		180	205	205	205	195	-180	180
Vapour prossure, mm Hg max		500	500	500	500	50 0	450	450
Induction period, min. min.		800	.500	500	500	500	50 0	500
The content of totroothyl load, ml/								A 75
queline mex		2000	۵,0	0,7	0,73	0,73	0,73	0,75
Sulphur centent, %, max		0,10	0,10	0,10	0,10	0,10	0,05	0,05
Existent gum, mg/100 ml gessline,	max	2	2	2	2	2	2	2

AVIATION TURBINE FUEL T-1, TC-1

Merks T-1 and TC-1 manufactured by means of straight run distillation of crude oils are characterized by light fractional composition, stability and successfully used by world known Soviet jet engines of various declars.

The let fuel T-1 and TC-1 are of the following characteristics:

	Jet propulsion fuel grades				
Cherecteristics	7-1	TC-1			
Density at 20°C,	0,800-0,850	0,775			
lattle belling point, oC, act above.	150	150			
10 % distilled, °C, not above	175	145	المو		
50 % distilled, °C, not above	225	195			
98 % distilled, °C, not above	270	230			
98 % distilled, °C, not above	280	250			
Kinematic viscosity, e.s.		1 26			
At 20°C, min	1,5	1,25			
At 6°C, max	4	2,5			
At minus 40°C, ment.	14	8,0			
At minus 50°C, mast	25	• .			
Mash point (closed asp) °C, not below Commencement of crystallization, °C,	30	28			
Centent of aromatic hydrocarbons, %,	-40	-60			
MS X	25	22			
Net celerific value keal/kg, min	10250	10250			
Total sulphur centent,	0,1	0,25			

BURNING KEROSENE

Burning keresene manufactured from sweet special crude oils is characterized by good photometric properties, light fraction composition and may be successfully used for lighting and household.

The burning kerosonal is of the following characteristics:	
Specific gravity at 15°C, max	0,15
Flash point, oc, not below	40
Clound point, °C, not above	-15
Sulphur content, %, max	0,05
Length of sootless flame, mm, min	22
Colour by Stammer, mark, max	2,2
Frectional compositions	
distilled up to 200°C, %, min	25
end point, °C, not above	28 0

GAS OIL

Gas Oil manufactured in the Soviet Union is of a high quality and guarantees efficient and continuous operation of transport and stationary machines under different climatic conditions. It is successfully applied in high-speed forced diesels with a large number of revolutions, securing stable work of the fuel equipment.

The gas oil is of the following characteristics:

	Gas oil grades			
Characteristics	43/47	48/52	53/57	
Density at 20°C, max	0,865	0,865	0,845	
Diesel Index, min	43	48	5 3	
Engler viscosity at 20°C	1,2-1,5	1,2-1,7	1,2-1,5	
Sulphur content, %, max	0,2	0,2	0,2-1,0	
Distillation:				
50 % distilled, °C, not above	290	290	290	
90 % distilled, OC, not above	3 50	3 50	340	
Pour point, OC, not above	-20	-15	-10	
Fiash point by Pensky-Martens,				
C, not below	65	60	65	
Colour In marks NPA, not darker	3	3	2	

FUEL WILL

Fuel oils mentioned in son all reservours intended to seem require to a service of various consumers including plants, water and railway transport, electric stations, glass industry and other enterprises.

Depending on the character of the technological processes, climate zone and the condition of the fuel equipment different kinds of fuel oils are used. They differ from each other in viscosity, pour point temperature, sulphase sontent and other qualitative indexes.

Fuel oils are of the following characteristics:

	Fuel oil grades		
Characteristics	F-12	12	30
Density at 20°C, max	0,950	0,955	0,965
Engler viscosity at 50°C	6-12	12	30
Sulphur content, %, max	0,8	2,5	2,5
Content of water and sediments,			
%, max	1,25	2,0	2,0
Pour point, OC, not above	-8	-5	+10
Flash point (in a closed cup)			
°C, not below	90	75	ó 5
Net calorific value kcal/kg	987 0	9600	9 60 0

COAL-TAR BENZOL

material for manufacturing of dyes and lacquers, styrene and synthetic phenol, alkylates as well as a solvent in producing aviation oils.

Commercial benzol is to answer the requirements of high purity which is echieved by narrow limits of boiling points; of absence of unsaturated hydrocarbons the contents of which is controlled by the bromine number; as well as of low sulphur content and sulphur compounds.

Coal-tar benzol is of the following characteristics:

Appearance	transparent Huld
Density at 20°C, within	0,875-0,830
Frestienal composition at 760 mm Hgs initial	
boiling point, OC, not below	79
end point, oc, not above	6,08
distilled within 1°C, by value, %, min	95
Sulphuric acid wash colour by Kramer-Spilker,	
MCX.	0,5
Bromine number, not above	۵٫0
Peur point, °C, not below	+4,8

AVIATION OILS

Aviation oils are manufactured from specially selected fat oils of a superior quality, that secure stable greasing and uninterrupted work of modern aircraft engines.

The aviation oils are of the following characteristics:

	Aviation oi	l grades
Characteristics	MC-20	MK-22
Kinematic viscosity at 100°C	*	
6.3t. min	20	22
Carbon content by Konradson, %, max.	0,3	0,7
Acid number, mg KOH per g, mex	0,05	0,1
Flash point by Pensky-Martens, °C,		
not below	225	230
Pour point, °C, not above	-18	-14
Density at 20°C, not above	0,895	0,905
Ash content, %, max	0,003	0,004

MACHINE OIL "CY"

Machine oil "CY" is manufactured from first-grade fet oils and used for lubricating mechanisms operating under great stress and at low speeds, for speed diesel engines and for cylinders of rotary compressors. This oil is also used for manufacturing gas and motor oils.

The turbine oils are of the following characteristics:

	Oil grades			
Characteristics	L	UT	Ţ	TR
Kinematic viscosity				
at 50°C, c.st	20-23	28-32	44-48	55- 5%
Acid number, mg KOH per g,		•		
max	0,02	0,02	0,02	0,05
Acid number after oxidation, mg				
KOH. per g, max	0,35	0,35	0,45	-
Speed of demulsification, min.				
ma>	3	8	ĭ.	3
Flash point (in an open cup),				
^O C, not below	180	180	195	195
Pour point, ^o C, not above	-15	-10	-10	-
Ash content & max	0.005	0.005	0,020	0.040

The machine oil "CY" is of the isflowing characteristics.

Density at 20°C, max	3,708
Engler viscosity at 50°C, max	7,86
Flesh point (in an open cup), °C, not below	. 200
Pour point, OC, not above	-20
Colour in marks NPA, max	3 ,5

SPINDLE OIL "2"

Spindle oil "2" manufactured from Baku oils is widely used in the textile and machine-building industry for lubrication of different mechanisms, including spindles, bearings of low-powered motors with circulating type of oil supply, for hydro systems working at low pressure, for piston series of ammoniac compressors.

Having low pour-point, this oil can provide lubrication of mechanisms working in conditions of low temperatures.

The spindle oil "2" is of the following characteristics:

Density at 20°C, max	0,900
Engler viscosity at 50°C	1,8-2,2
Flash point (in an open cup), °C, not below	165
Pour point, OC, not above	-30
Colour in marks NPA, max.	2,5

TURBINE OILS

Turbine oils are used for lubrication and cooling of bearings of steam and water turbines, turbocompressors, turboblowers, various pumps and other mechanisms having a circular type lubrication system. They are manufactures from distillates of light fat oils, mainly of Apsheron and Emba origin and are notable for high stability against oxidation and high demulsifying ability.